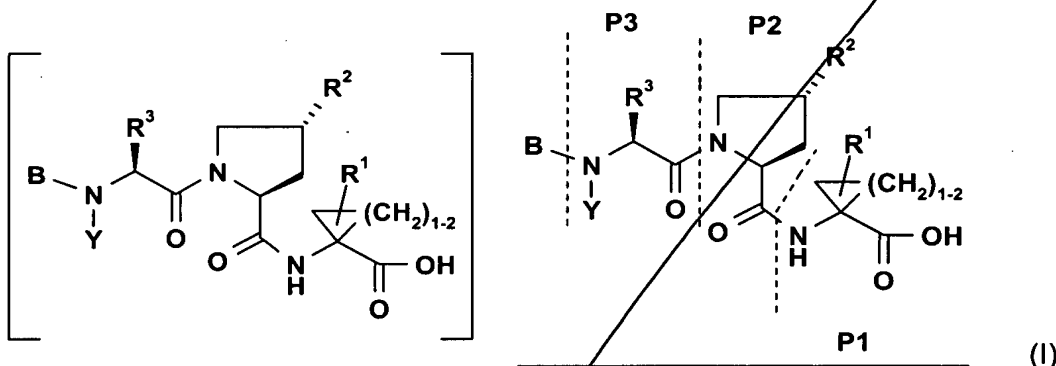


PRELIMINARY AMENDMENT

Docket No. 13/068-3-D3

IN THE CLAIMS:

1. (Amended) A compound of formula (I) comprising [the scope of the invention are] racemates, diastereoisomers and optical isomers of



wherein **B** is H, a C₆ or C₁₀ aryl, C₇₋₁₆ aralkyl; Het or (lower alkyl)-Het, all of which optionally substituted with C₁₋₆ alkyl; C₁₋₆ alkoxy; C₁₋₆ alkanoyl; hydroxy; hydroxyalkyl; halo; haloalkyl; nitro; cyano; cyanoalkyl; amino optionally substituted with C₁₋₆ alkyl; amido; or (lower alkyl)amide; or **B** is an acyl derivative of formula **R**₄-C(O)-; a carboxyl of formula **R**₄-O-C(O)-; an amide of formula **R**₄-N(**R**₅)-C(O)-; a thioamide of formula **R**₄-N(**R**₅)-C(S)-; or a sulfonyl of formula **R**₄-SO₂ wherein

- R**₄ is (i) C₁₋₁₀ alkyl optionally substituted with carboxyl, C₁₋₆ alkanoyl, hydroxy, C₁₋₆ alkoxy, amino optionally mono- or di-substituted with C₁₋₆ alkyl, amido, or (lower alkyl) amide;
- (ii) C₃₋₇ cycloalkyl, C₃₋₇ cycloalkoxy, or C₄₋₁₀ alkylcycloalkyl, all optionally substituted with hydroxy, carboxyl, (C₁₋₆ alkoxy)carbonyl, amino optionally mono- or di-substituted with C₁₋₆ alkyl, amido, or (lower alkyl) amide;
- (iii) amino optionally mono- or di-substituted with C₁₋₆ alkyl; amido; or (lower alkyl)amide;
- (iv) C₆ or C₁₀ aryl or C₇₋₁₆ aralkyl, all optionally substituted with C₁₋₆ alkyl, hydroxy, amido, (lower alkyl)amide, or amino optionally mono- or di-substituted with C₁₋₆ alkyl; or
- (v) Het or (lower alkyl)-Het, both optionally substituted with C₁₋₆ alkyl, hydroxy, amido, (lower alkyl) amide, or amino optionally mono- or di-substituted with C₁₋₆ alkyl;

R₅ is H or C₁₋₆ alkyl; with the proviso that when **R**₄ is an amide or a thioamide, **R**₄ is not (ii) a

PRELIMINARY AMENDMENT

Docket No. 13/068-3-D3

cycloalkoxy;

Y is H or C₁₋₆ alkyl;

R³ is C₁₋₈ alkyl, C₃₋₇ cycloalkyl, or C₄₋₁₀ alkylcycloalkyl, all optionally substituted with hydroxy, C₁₋₆ alkoxy, C₁₋₆ thioalkyl, amido, (lower alkyl)amido, C₆ or C₁₀ aryl, or C₇₋₁₆ aralkyl;

[R₂] R² is CH₂-R₂₀, NH-R₂₀, O-R₂₀ or S-R₂₀, wherein [R₂₀] is a saturated or unsaturated C₃₋₇ cycloalkyl or C₄₋₁₀ (alkylcycloalkyl), all of which being optionally mono-, di- or tri-substituted with R₂₁,

or R₂₀ is a C₆ or C₁₀ aryl or C₇₋₁₄ aralkyl, all optionally mono-, di- or tri-substituted with R₂₁,

or] R₂₀ is [Het or (lower alkyl)-Het] pyrimidinyl, quinazolinyl, (lower alkyl)-pyrimidinyl or (lower alkyl)-quinazolinyl, [both] each optionally mono-, di- or tri-substituted with R₂₁,

wherein each R₂₁ is independently C₁₋₆ alkyl; C₁₋₆ alkoxy; lower thioalkyl; sulfonyl; NO₂; OH; SH; halo; haloalkyl; amino optionally mono- or di-substituted with C₁₋₆ alkyl, C₆ or C₁₀ aryl, C₇₋₁₄ aralkyl, Het or (lower alkyl)-Het; amido optionally mono-substituted with C₁₋₆ alkyl, C₆ or C₁₀ aryl, C₇₋₁₄ aralkyl, Het or (lower alkyl)-Het; carboxyl; carboxy(lower alkyl); C₆ or C₁₀ aryl, C₇₋₁₄ aralkyl or Het, said aryl, aralkyl or Het being optionally substituted with R₂₂;

wherein R₂₂ is C₁₋₆ alkyl; C₃₋₇ cycloalkyl; C₁₋₆ alkoxy; amino optionally mono- or di-substituted with C₁₋₆ alkyl; sulfonyl; (lower alkyl)sulfonyl; NO₂; OH; SH; halo; haloalkyl; carboxyl; amide; (lower alkyl)amide; or Het optionally substituted with C₁₋₆ alkyl;

R¹ is H; C₁₋₆ alkyl, C₃₋₇ cycloalkyl, C₂₋₆ alkenyl, or C₂₋₆ alkynyl, all optionally substituted with halogen;

or a pharmaceutically acceptable salt or ester thereof;

wherein "Het" is defined as a five-membered saturated or unsaturated, including aromatic,

heterocycle containing from one to four heteroatoms selected from nitrogen, oxygen and sulfur,

wherein said heterocycle is optionally fused to a benzene ring.

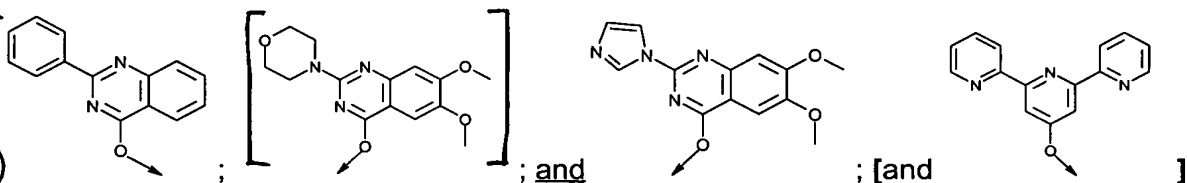
21. (amended) A compound of formula I according to claim 1, wherein [R₂] R² is S-R₂₀ or O-R₂₀ wherein R₂₀ is a [C₆ or C₁₀ aryl, C₇₋₁₆ aralkyl, Het or -CH₂-Het] pyrimidinyl, quinazolinyl, -CH₂-pyrimidinyl or -CH₂-quinazolinyl, all optionally mono-, di- or tri-substituted with R₂₁, wherein

Docket No. 13/068-3-D3

R₂₁ is C₁₋₆ alkyl; C₁₋₆ alkoxy; lower thioalkyl; amino or amido optionally mono- or di-substituted with C₁₋₆ alkyl, C₆ or C₁₀ aryl, C₇₋₁₆ aralkyl, Het or (lower alkyl)-Het; NO₂; OH; halo; trifluoromethyl; carboxyl; C₆ or C₁₀ aryl, C₇₋₁₆ aralkyl, or Het, said aryl, aralkyl or Het being optionally substituted with **R₂₂**, wherein

R₂₂ is C₁₋₆ alkyl; C₃₋₇ cycloalkyl; C₁₋₆ alkoxy; amino; mono- or di-(lower alkyl)amino; (lower alkyl)amide; sulfonylalkyl; NO₂; OH; halo; trifluoromethyl; carboxyl or Het.

25. (amended) A compound of formula I according to claim 21, wherein **[R₂]** R² is selected from the group consisting of:



Please cancel claims 26 to 35.

In the following claims, delete “R₁” and insert --R¹--:

Claim 36, line 2; Claim 38, line 1; Claim 39, line 1 and line 3 (in the structures); Claim 40, line 1 and line 3 (in the structures); Claim 42, line 1 and line 3 (in the structure); Claim 43, line 1; Claim 44, line 1.

45. (amended) A compound of formula I according to claim 1, wherein

B is a C₆ or C₁₀ aryl or C₇₋₁₆ aralkyl, all optionally substituted with C₁₋₆ alkyl, C₁₋₆ alkoxy, C₁₋₆ alkanoyl, hydroxy, hydroxyalkyl, halo, haloalkyl, nitro, cyano, cyanoalkyl, amido, (lower alkyl)amido, or amino optionally substituted with C₁₋₆ alkyl; or
Het or (lower alkyl)-Het, all optionally substituted with C₁₋₆ alkyl, C₁₋₆ alkoxy, C₁₋₆ alkanoyl,

PRELIMINARY AMENDMENT

Docket No. 13/068-3-D3

hydroxy, hydroxyalkyl, halo, haloalkyl, nitro, cyano, cyanoalkyl, amido, (lower alkyl)amido, or amino optionally substituted with C₁₋₆ alkyl, or

B is R₄-SO₂ wherein R₄ is preferably amido; (lower alkyl)amide; C₆ or C₁₀ aryl, C₇₋₁₄ aralkyl or Het, all optionally substituted with C₁₋₆ alkyl, or

B is an acyl derivative of formula R₄-C(O)- wherein R₄ is

(i) C₁₋₁₀ alkyl optionally substituted with carboxyl, hydroxy or C₁₋₆ alkoxy, amido, (lower alkyl)amide, or amino optionally mono- or di-substituted with C₁₋₆ alkyl;

(ii) C₃₋₇ cycloalkyl or C₄₋₁₀ alkylcycloalkyl, both optionally substituted with hydroxy, carboxyl, (C₁₋₆ alkoxy)carbonyl, amido, (lower alkyl)amide, or amino optionally mono- or di-substituted with C₁₋₆ alkyl;

(iv) C₆ or C₁₀ aryl or C₇₋₁₆ aralkyl, all optionally substituted with C₁₋₆ alkyl, hydroxy, amido, (lower alkyl)amide, or amino optionally substituted with C₁₋₆ alkyl;

(v) Het or (lower alkyl)-Het, both optionally substituted with C₁₋₆ alkyl, hydroxy, amino optionally substituted with C₁₋₆ alkyl, amido, (lower alkyl)amide, or amino optionally substituted with C₁₋₆ alkyl, or

B is a carboxyl of formula R₄-O-C(O)-, wherein R₄ is

(i) C₁₋₁₀ alkyl optionally substituted with carboxyl, C₁₋₆ alkanoyl, hydroxy, C₁₋₆ alkoxy, amino optionally mono- or di-substituted with C₁₋₆ alkyl, amido or (lower alkyl)amide;

(ii) C₃₋₇ cycloalkyl, C₄₋₁₀ alkylcycloalkyl, all optionally substituted with carboxyl, (C₁₋₆ alkoxy)carbonyl, amino optionally mono- or di-substituted with C₁₋₆ alkyl, amido or (lower alkyl)amide;

(iv) C₆ or C₁₀ aryl or C₇₋₁₆ aralkyl optionally substituted with C₁₋₆ alkyl, hydroxy, amido, (lower alkyl)amido, or amino optionally mono- or di-substituted with C₁₋₆ alkyl; or

(v) Het or (lower alkyl)-Het, both optionally substituted with C₁₋₆ alkyl, hydroxy, amino optionally mono- or di-substituted with C₁₋₆ alkyl, amido or (lower alkyl)amido, or

B is an amide of formula R₄-N(R₅)-C(O)- wherein R₄ is

(i) C₁₋₁₀ alkyl optionally substituted with carboxyl, C₁₋₆ alkanoyl, hydroxy, C₁₋₆ alkoxy, amido, (lower alkyl)amido, or amino optionally mono- or di-substituted with C₁₋₆ alkyl;

A

PRELIMINARY AMENDMENT

Docket No. 13/068-3-D3

(ii) C₃₋₇ cycloalkyl or C₄₋₁₀ alkylcycloalkyl, all optionally substituted with carboxyl, (C₁₋₆ alkoxy)carbonyl, amido, (lower alkyl)amido, or amino optionally mono- or di-substituted with C₁₋₆ alkyl;

(iii) amino optionally mono- or di-substituted with C₁₋₆ alkyl;

(iv) C₆ or C₁₀ aryl or C₇₋₁₆ aralkyl, all optionally substituted with C₁₋₆ alkyl, hydroxy, amido, (lower alkyl)amide, or amino optionally substituted with C₁₋₆ alkyl; or

(v) Het or (lower alkyl)-Het, both optionally substituted with C₁₋₆ alkyl, hydroxy, amino optionally substituted with C₁₋₆ alkyl, amido or (lower alkyl)amide; and

R₅ is H or methyl, or

B is thioamide of formula R₄-NH-C(S)-, wherein R₄ is

(i) C₁₋₁₀ alkyl optionally substituted with carboxyl, C₁₋₆ alkanoyl or C₁₋₆ alkoxy;

(ii) C₃₋₇ cycloalkyl or C₄₋₁₀ alkylcycloalkyl, all optionally substituted with carboxyl, (C₁₋₆ alkoxy)carbonyl, amino or amido;

Y is H or methyl;

R³ is C₁₋₈ alkyl, C₃₋₇ cycloalkyl, or C₄₋₁₀ alkylcycloalkyl, all optionally substituted with hydroxy, C₁₋₆ alkoxy, C₁₋₆ thioalkyl, acetamido, C₆ or C₁₀ aryl, or C₇₋₁₆ aralkyl;

[R₂] R² is S-R₂₀ or O-R₂₀ wherein R₂₀ is [preferably a C₆ or C₁₀ aryl, C₇₋₁₆ aralkyl, Het or -CH₂-Het] pyrimidinyl, quinazolinyl, -CH₂-pyrimidinyl or -CH₂-quinazolinyl, all optionally mono-, di- or tri-substituted with R₂₁, wherein

R₂₁ is C₁₋₆ alkyl; C₁₋₆ alkoxy; lower thioalkyl; amino or amido optionally mono- or di-substituted with C₁₋₆ alkyl, C₆ or C₁₀ aryl, C₇₋₁₆ aralkyl, Het or (lower alkyl)-Het; NO₂; OH; halo; trifluoromethyl; carboxyl; C₆ or C₁₀ aryl, C₇₋₁₆ aralkyl, or Het, said aryl, aralkyl or Het being optionally substituted with R₂₂, wherein

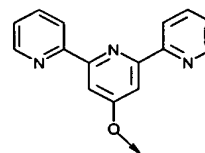
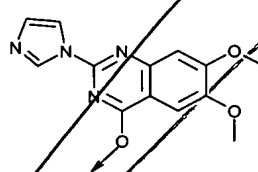
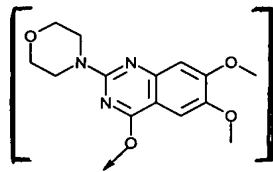
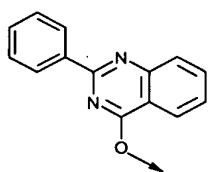
R₂₂ is C₁₋₆ alkyl; C₃₋₇ cycloalkyl; C₁₋₆ alkoxy; amino; mono- or di-(lower alkyl)amino; (lower alkyl)amide; sulfonylalkyl; NO₂; OH; halo; trifluoromethyl; carboxyl or Het; or

[R₂] R² is selected from the group consisting of:

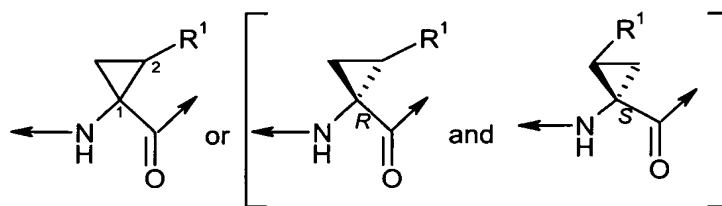
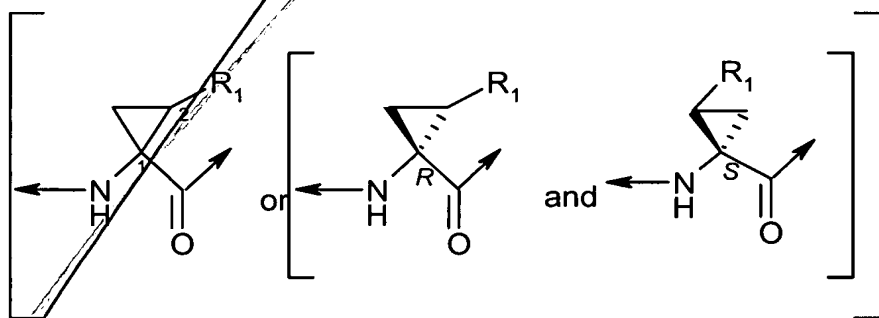
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PRELIMINARY AMENDMENT

Docket No. 13/068-3-D3



[or R_2 is 1-naphthylmethoxy; 2-naphthylmethoxy; benzyloxy, 1-naphthyloxy; 2-naphthyloxy; or quinolinoxy unsubstituted, mono- or di-substituted with R_{21} as defined above]; and the **P1** segment is a cyclopropyl ring, both optionally substituted with $[R_1]$ R^1 , wherein R^1 is C_{1-3} alkyl, C_{3-5} cycloalkyl, or C_{2-4} alkenyl optionally substituted with halo, and said $[R_1]$ R^1 at carbon 2 is orientated *syn* to the carbonyl at position 1, represented by the radical:



or a pharmaceutically acceptable salt or ester thereof.

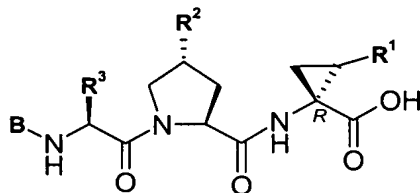
Please cancel claims 46 to 51.

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PRELIMINARY AMENDMENT
Docket No. 13/068-3-D3

52.

(amended) A compound according to claim 45 represented by the formula:



wherein B, [R₃, R₂, R₁] R³, R², R¹ are as defined below:

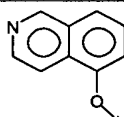
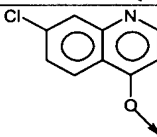
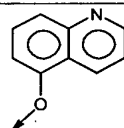
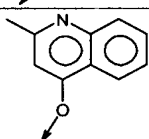
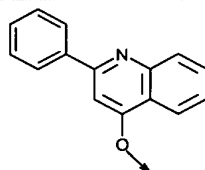
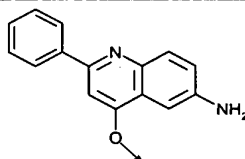
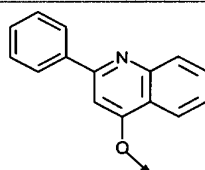
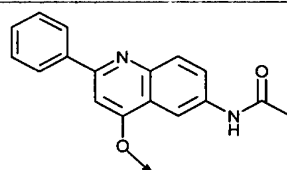
Table 3 Cpd #	B	[R ₃]R ³	[R ₂]R ²	[R ₁] R ¹ syn to carboxyl	
[301]	Boc	cHex	-O-CH ₂ -1-naphthyl	ethyl	;
302		iPr	-O-CH ₂ -1-naphthyl	ethyl	;
303		cHex	-O-CH ₂ -1-naphthyl	ethyl	;
304	Boc	cHex		ethyl	;
305	Boc	cHex	-O-CH ₂ -1-naphthyl	vinyl	;
306	Boc	cHex		vinyl	;
307	Boc	cHex		vinyl	;
308	Boc	cHex		vinyl	;
309	Boc	cHex		vinyl	;

135

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PRELIMINARY AMENDMENT
Docket No. 13/068-3-D3

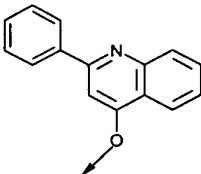
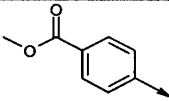
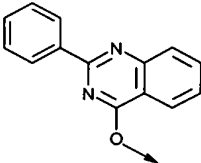
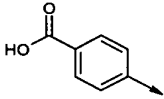
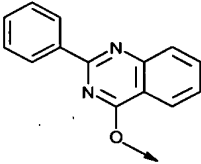
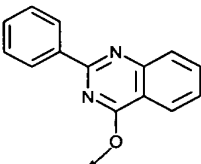
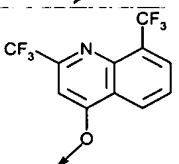
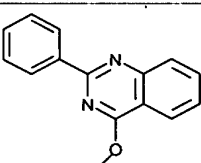

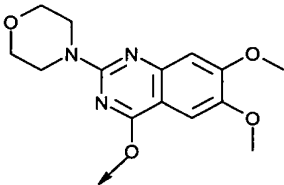
Table 3 Cpd #	B	[R ₃]R ³	[R ₂]R ²	[R ₁] R ¹ syn to carboxyl	
310	Boc	cHex		vinyl	;
311	Boc	cHex		vinyl	;
312	Boc	cHex		vinyl	;
313	Boc	cHex		vinyl	;
314	Boc	cHex		vinyl	;
315	Boc	cHex		vinyl	;
316	Acetyl	cHex		vinyl	;
317	Boc	cHex		vinyl	;

136

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PRELIMINARY AMENDMENT
Docket No. 13/068-3-D3

Table 3 Cpd #	B	[R ₃]R ³	[R ₂]R ²	[R ₁] R ¹ syn to carboxyl	
318	CF ₃ -C(O)-	<i>i</i> -Pr		vinyl	;]
319		cHex		vinyl	;
320		cHex		vinyl	;
321	Boc	<i>t</i> -Bu		vinyl	;
[322	Boc	<i>t</i> -Bu		vinyl	;]
323	Boc	<i>t</i> -Bu			;
[324	Boc	<i>t</i> -Bu		vinyl	;

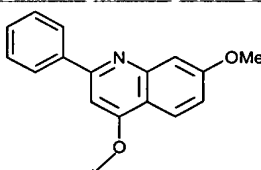
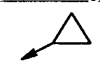
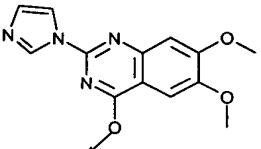
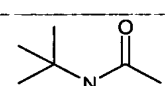
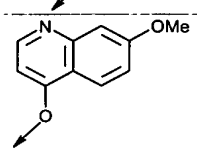
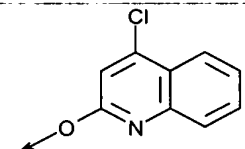
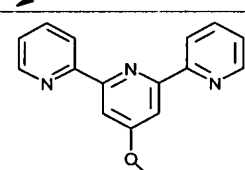
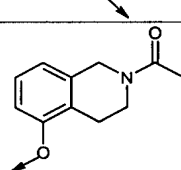
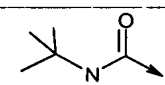
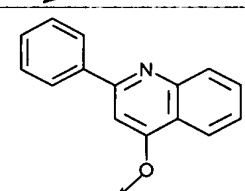
137

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PRELIMINARY AMENDMENT
Docket No. 13/068-3-D3

Table 3 Cpd #	B	[R ₃]R ³	[R ₂]R ²	[R ₁] R ¹ syn to carboxyl	
325	Boc	<i>t</i> -Bu			;
326	Boc	<i>t</i> -Bu		vinyl	;
[327]		<i>t</i> -Bu		vinyl	;
328	Boc	<i>t</i> -Bu		vinyl	;
329	Boc	<i>t</i> -Bu		vinyl	;
330	Boc	<i>t</i> -Bu		vinyl	;
331		<i>t</i> -Bu		vinyl	;

138

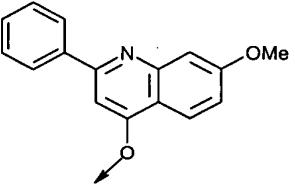
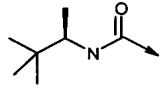
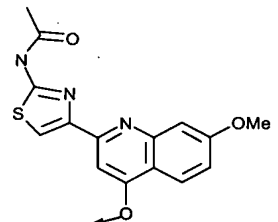
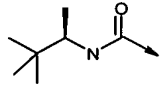
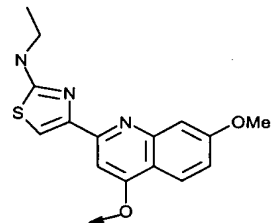
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PRELIMINARY AMENDMENT

Docket No. 13/068-3-D3

Table 3 Cpd #	B	[R ₃]R ³	[R ₂]R ²	[R ₁] R ¹ syn to carboxyl
332	Boc	<i>t</i> -Bu		ethyl ;
333		<i>t</i> -Bu		vinyl ;
and 334		<i>t</i> -Bu		vinyl].

53. (amended) A compound according to claim 52, selected from the group consisting of compound #: [307,314, 317,] 319, 321, [324, 325,] and 326 [, 327, 329, 331, 332, 333, and 334].

Please cancel claims 54 to 65.

In Claims 67, 68, 69 and 70, line 1 of each claim, delete "by" and insert --comprising--.

45. (amended) A process for the preparation of a peptide analog of formula (I) according to claim 1 wherein P1 is a substituted aminocyclopropyl carboxylic acid residue, comprising the

139

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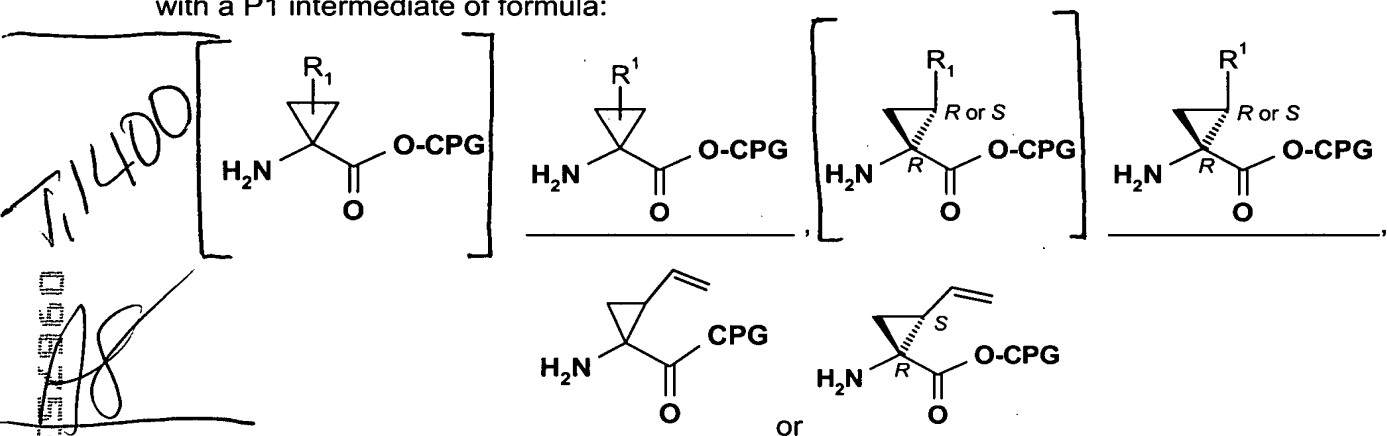
PRELIMINARY AMENDMENT

Docket No. 13/068-3-D3

step of:

coupling a peptide selected from the group consisting of: APG-P3-P2; or APG-P2;

with a P1 intermediate of formula:

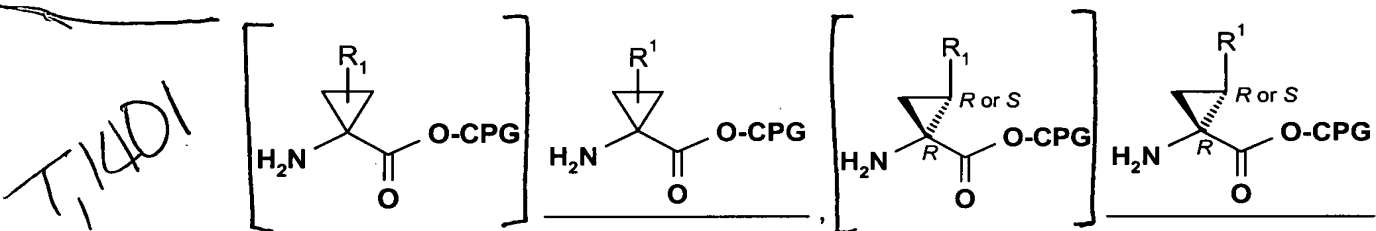


wherein $[R_1]$ is C_{1-6} alkyl, cycloalkyl or C_{2-6} alkenyl, all optionally substituted with halogen, CPG is a carboxyl protecting group and APG is an amino protecting group and P3 and P2 are as defined above.

46

74. (amended) A process for the preparation of: [1] a serine protease inhibitor peptide analog, or 2)] a [HCV NS3 protease inhibitor] peptide analog of formula (I) according to claim 1, this process comprising the step of:

coupling a [(suitably protected)] amino acid, peptide or peptide fragment with a P1 intermediate of formula:

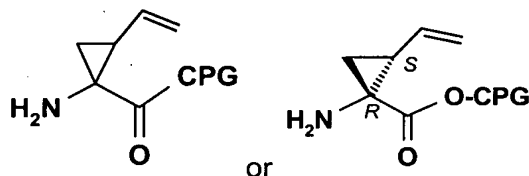


140

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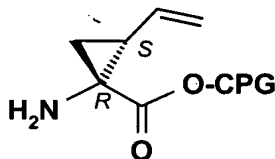
PRELIMINARY AMENDMENT

Docket No. 13/068-3-D3



wherein $[R_1]R^1$ is C_{1-6} alkyl, cycloalkyl or C_{2-6} alkenyl, all optionally substituted with halogen, and CPG is a carboxyl protecting group.

47. (amended) A process for the preparation of: [1) a protease inhibitor peptide analog, or 2) a [serine protease inhibitor] peptide analog of formula (I) according to claim 1, this process comprising the step of:
coupling a [(suitably protected)] amino acid, peptide or peptide fragment with [an] a P1 intermediate of formula:



wherein CPG is a carboxyl protecting group.

Please cancel claims 76 to 79 and claims 81 to 83, without prejudice.

84. (amended) [Use of] Method of preparing [an anti-hepatitis C virally effective amount of the compound of formula I according to claim 1, or a therapeutically acceptable salt or ester thereof for the preparation of] a composition for treating a hepatitis C viral infection in a mammal comprising combining an anti-hepatitis C virally effective amount of the compound of formula I according to claim 1, or a therapeutically acceptable salt or ester thereof, with a pharmaceutically acceptable carrier medium or auxiliary agent.

PRELIMINARY AMENDMENT

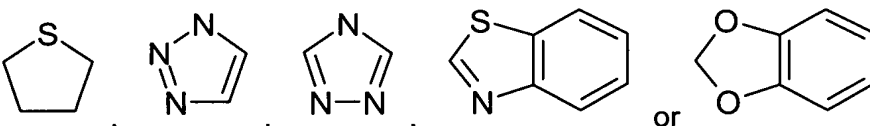
Docket No. 13/068-3-D3

30
85. (amended) [Use of] Method of preparing [a hepatitis C viral NS3 protease inhibiting amount of the compound of formula I according to claim 1, or a therapeutically acceptable salt or ester thereof for the preparation of] a composition for inhibiting the replication of hepatitis C virus comprising combining a hepatitis C viral NS3 protease inhibiting amount of the compound of formula I according to claim 1, or a therapeutically acceptable salt or ester thereof, with a pharmaceutically acceptable carrier medium or auxiliary agent.

51
86. (amended) [Use of] Method of preparing [an anti-hepatitis C virally effective amount of a combination of the compound of formula I according to claim 1, or a therapeutically acceptable salt or ester thereof, and an interferon for the preparation of] a composition for treating a hepatitis C viral infection in a mammal comprising combining an anti-hepatitis C virally effective amount of a combination of the compound of formula I according to claim 1, or a therapeutically acceptable salt or ester thereof, and an interferon with a pharmaceutically acceptable carrier medium or auxiliary agent.

Please add the following new claim 87:

-- ~~87~~ 87. A compound of formula (I) according to claim 1, wherein each Het group is independently selected from the group consisting of pyrrolidine, tetrahydrofuran, thiazolidine, pyrrole, 1,4-dioxane, indole, or any of the following heterocycles:



REMARKS

The specification and claim 1 have been amended to designate the P1, P2, P3 portions of the

142

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